MAYFET, A.; SHULENIN, M.,

Efficient interfarm fattening centers. Sel'.stroi. 15 no.9:
7-9 S '60. (MIRA 13:9)

1. Glavnyy inzhener Belgorodskogo oblmezhkolkhozstroya (for Meyfet).
2. Korrespondent zhuraala "Sel'skoye stroitel'stvo" (for Shulenin).

(Belgorod Province--Feeding and feeds)

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# SHULENIN, M.

Swampy lands have become fertile. Sel'. stroi. 15 no.12:6-7 D '60. (MIRA 13:12)

1. Korrespondent zhurnala "Sel'skoye stroitel'stvo."
(Vologda Province—Reclamation of land)

Efficient farm buildings are being built. Sel' stroi. 15 no.1:13-14 (MIRA 14:3)	•
l. Korrespondent zhurnala "Sel'skoye stroitel'stvo." (Vologda ProvinceFarm Buildings)	

# 

SHULENIN, M.

The village of Prudki will be an urban-style town. Sel'. stroi. 15 no. 2:24-25 F '61. (MIRA 14:5)

l. Korrespondent zhurnala "Sel'skoye stroitel'stvo." (Prudki--City planning)

# SHULENIN, M.

Advanced organization of construction. Sel'. stroi. 15 no. 3:11-12 Mr '61. (MIRA 14:5)

1. Korrespondent zhurnala "Sel'skoye stroitel'stvo."

(Kimovsk District—Construction industry)

(Collective farms—Interfarm cooperation)

# 

The village of Lukashevka grows better-looking. Sel'. stroi. 15 no.4:12 Ap '61. (MIRA 14:6)

Using reed in multiple-story hour stroi. 16 no.6:12-13 Je '61.	sing construction. Sel! (MIRA 14:7)	
l. Korrespondent zhurnala "Sel's (Reed products) (Apartment	skoye stroitel'stvo.* t houses)	
• • • • • • • • • • • • • • • • • • • •		

Large plant for pr no.9:22-24 S 161.	oducing building ma	terials. Sel'. stroi (MIRA	. 16 14:9)
l. Korrespondent (Minera	zhurnala "Sel'skoye al'nye vodyBuildin	stroitel'stvo". g materials industry)	

SHULENIN, M., inzhener-ekonomist

Automatic machinery comes to the farm. Naukz i zhizn' 28 no.3:4-6
Mr \*61.

(Automatic control) (Swine houses and equipment)

SHULENIN, M., inzh.-ekonomist

Housing construction on state farms. Sel' stroi. [i.e.16]
no.3:17-18 Mr '62. (MIRA 15:7)
(Housing, Rural-Leningrad Province)

### 

SHULENIN, M., inzh.-ekonomist

They build slowly and poorly on the state farms of Bryansk
Province. Sel. stroi. no.4:16-17 Ap '62. (MIRA 15:8)

(Bryansk Province—Construction industry)

ž.v	A supply center is the key to a successful construction in the virgin lands. Sel'. stroi. no.5:17-19 My '62. (MIRA 15:7)						
Đ).	] Korrespondent złurnala "Seliskoye stroitelistvo".  (Altai territory—Construction industry)						
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	should not work like that. Sel'. stroi. no.6:28-29	Je *62. (MIRA 15:7)	
1.	Korrespondent zhurnala "Sel'skoye stroitel'stvo".  (Collective farms—Interfarm cooperation)  (Construction industry)		• ',
			-

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550120019-7"

SHULENIN, M.
On old Smolensk Road. Sel: stroi. no.9:8b-10 S 162.
(MIRA 15:10)

1. Korrespondent zhurnala "Sel'skoye stroitel'stvo".

(Smolensk Province—Construction industry)

SHULENIN, M.

You won't build much using such methods. Sel'.stroi. no.11:27-28 N '62. (MIRA 15:12)

1. Korrespondent zhurnala "Sel'skoye stroitel'stvo."
(Belgorod Province--Construction industry)

SHULENIN, M., inmh.—ekonomist

IUkhnov builders improve their work. Sel'. stroi. no.12:8-8a
D'62.

(IUkhnov—Construction industry)

Activi Sel'.	ties and needs stroi. 16 no	of the Kizl .1:13-14 Ja	yar interfarm '62.	construction	on trust. (MIRA 16:1)	
1. Kor	respondent zhu (Kizl	rnala "Sel's yar District	koye stroitel Construction	.'stvo". n industry)		
						:

SHULENIN M.

Mistakes of the past should not be repeated. Sel'. stroi. 18 no.5:29-30 My '63. (MIRA 16:6)

1. Korrespondent zhurmala "Sel'skoye stroitel'stvo".
(Orel Province—Construction industry)

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IGNATOK, A.I., inzh.; SHIFMAN, G.M., kand. med. nauk, red.; KORETSKIY, V.A., starshiy inzh., red.; SHULENIN, N.A., red.; MIKHAYLOVA, V.L., red.; KOGAN, G.M., starshiy inzh., red.; NARBEKOVA, N.N., starshiy inzh., red.; SIDOROCHKIN, S.S., starshiy inzh., red.; SOROKINA, G.Ye., tekhn. red.

[Safety and industrial sanitation regulations for founding shops in the machinery industry] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii v liteynom proizvodstve mashinostroitel'noi promyshlennosti. Utverzhdeny Prezidiumom TsK Profsoiuza rabochikh meahinostroeniia nosti. Utverzhdeny Prezidiumom TsK Profsoiuza rabochikh meahinostroeniia noiabria 1958 goda.... Moskva, Gos. nauchno-tekhn. izd-vo mashino-19 noiabria 1958 goda.... Moskva, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry, 1960. 67 p.

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya (for Ignatok, Mikhaylova). 3. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shifman). 4. Moskovskiy zavod "Stankolit" (for Koretskiy). 5. Uchenyy sekretar' NIITLITMASha (for Shulenin). 6. Gosudarstvennyy institut po proyektirovaniyu stankostroitel'nykh, instrumental'nykh, abrazivnykh zavodov i zavodov kuznechno-pressovogo mashinostroyeniya (for Narbekova). 7. Mozevodov kuznechno-pressovogo mashinostroyeniya (for Narbekova). 7. Mozevodov kuznechno-pressovogo mashinostroyeniya (for Sidorochkin). (FOUNDING—SAFETY MEASURES) (FACTORY SANITATION)

# "APPROVED FOR RELEASE: 08/09/2001

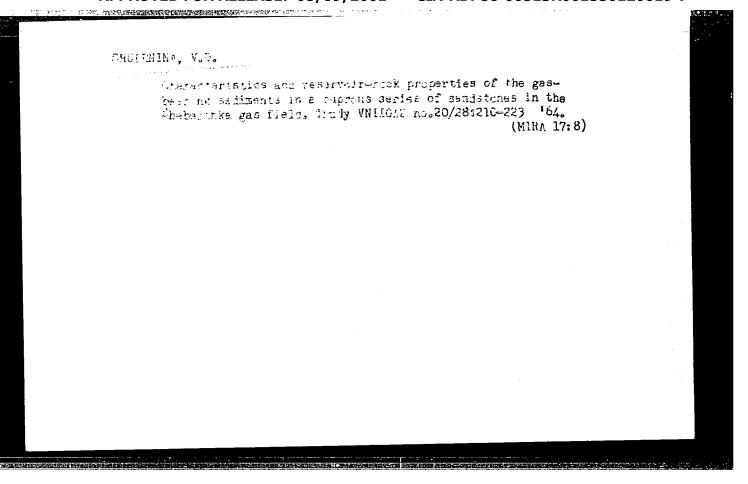
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ICHATOK, A.I., inzh.; SHIFMAN, G.M., kand. med. nauk; red.; RUINANION. V.A., starshiy inzh., red.; SHULENIN, N.A., red.; MIKHAYLOVA, V.L., tekhinspektor, red.; Shullenin, N.A., red.; Minhailluva, V.L., tekhinspektor, red.; KOGAN, G.M., starshiy inzh., red.; NARBEKOVA, N.N., starshiy inzh., red.; SIDOROCHKIN, S.S., starshiy inzh., red.; SMIRNOVA, G.V., tekhn. red.

[Regulations on safety measures and industrial sanitation in foundry practice in the machinery industry] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii v liteinom proizvodstve mashinostroitel noi promyshlennosti. Utverzhdeny Prezidiumom Tsk Profsoiuza rabochikh mashinostroeniia 19 noiabria 1958 goda... Moskva, Mashgiz, 1961. 69 p.

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhnicheskiy inspektor TSentral nogo komiteta profsoyuza mashinostroyeniya SSSR (for Ignatok). 3. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shifman). 4. Moskovskiy zavod "Stankolit" (for Koretskiy). 5. Uchenyy sekretar Nauchno-issledovatel skogo instituta liteynogo mashinostroyeniya i liteynoy tekhnologii (for Shulenin). 6. Tekhnicheskiy inspektor TSentral rogo komiteta profsoyuza mshinostroyeniya SSSR (for Mikhaylova). 7. Moskovskiy avtozavod im. Likhacheva (for Kogan). (Continued on next card)



# SHULEHINA, V.D. Characteristics and reservoir properties of rocks in the lower anhydrite gas-bearing horizon of the Shebelinka field. Trudy (MIRA 13:10) VNI 10AZ no. 10:44-61 '60. (Shebelinka region--Gas, Natural--Geology)

IJP(c) EWT(m)/T L 24408-65

S/2892/64/000/003/0005/0009

ACCESSION NR: AT5003274

AWTHOR: Kolobashkin, V. M.; Shulenko, M. V.; Zharkov, V. P.

TITLE: Gas radiometry using cylindrical counters within fixed volumes

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 3, 1964, 5-9

TOPIC TAGS: gas radiometry, counter volume, beta radiation, radiation dosimetry,

ABSTRACT: The theory underlying the determination of the concentration of P-radioactive gases using cylindrical counters within a fixed gas filled volume (see, e.g. H. Gebauer, Kerntechnik, 3, 3, 130, 1961) shows that there is an optimum counter radius resulting in an optimum counter sensitivity. However, in most practical cases this optimum cannot be achieved due to the finite radii of available counters. To circumvent this difficulty, the authors propose that the optimum counter volume be covered by a symmetrically distributed battery of 7 counters as shown in Fig. 1 of the Enclosure. They derive the pertinent theoretical equations which, among other things, permit the relative change in counting rate when going over

Card 1/3

ACCESSION NR: AT5003274

from a single counter to the combination of seven to be estimated within ± 10%.
Tests showed that the background of seven AS-1 counters in coincidence was extremely constant and equal to 26.3 ± 0.2 c/min., while each of the separate counters registered a background of 17-24 c/min. Orig. art. has: 7 formulas and 2 figures.

ASSOCIATION: None

SUEMITTED: 00 ENGL: 01 SUB CODE: NP

NO REF SOV: 004 OTHER: 001

LYUKSEHBURG, M.S.; VAYSBERG, I.Ye.; MASLOY, I.G. [deceased]; SHNAYDER,
I.S.; SHULENKOYA, I.Ye.

Norms for the expenditure of sole raw materials per area unit.
Kozh.-obuv.prom. 2 no.7:8-11 J1 '60. (MIRA 13:8)

(Leather industry--Standards)

SHULENKOVA, Ye.I., inzh.; KUT'IN, V.A., kand.tekhn.nauk.

Properties of face layers of Russian leather. Nauch.-isel. trudy
TSNIKP no.28:11-26 '57.
(Leather--Testing)

GOL'TSEN, I.I.; KOLESNIKOVA, N.I.; SHULENKOVA, Ye.I.

Tanning sole leather in worm apparatuses. Leg.prom. 18 no.10:43-44

(MIRA 11:11)

(Tanning)

SOURCE CODE: UR/0413/66/000/018/0143/0143 INVENTOR: Zemskov, G. V.; Shulenok, P. F.  ORG: none  TITLE: Method of preparation of titanium and titanium-alloy surface before hot-aluminizing. Class 48, No. 186244  SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 143  TOPIC TAGS: titanium, constant, titanium alloy conting, metal surfaceas, Alexandra Alatraca ABSTRACT: This Authors Certificate introduces a method of surface treatment of titanium and titanium alloy parts as a preparation for hot aluminizing. To simplify the process, the parts are oxidized in air at 450—700C for 15—20 min.  SUB CODE: 11/ SUB CODE: 12May64/				÷	
ORG: none  TITIE: Method of preparation of titanium and titanium-alloy surface before hot- aluminizing. Class 48, No. 186244  SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 143  TOPIC TAGS: titanium tovering, titanium alloy satisfy, metal surface, netal surface, ABSTRACT: This Authors Certificate introduces a method of surface treatment of titanium and titanium alloy parts as a preparation for hot aluminizing. To simplify the process, the parts are oxidized in air at 450—700C for 15—20 min.  SUB CODE: 11/ SUB CODE: 12May64/	ACC NR: AP6033510	SOURCE CODE:	UR/0413/66/000/018/0143	/0143	
TITIE: Method of preparation of titanium and titanium-alloy surface before hotaluminizing. Class 48, No. 186244  SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 143  TOPIC TAGS: titanium, titanium alloy conting, metal surface, netal surface, netal surface treatment of titanium and titanium alloy parts as a preparation for hot aluminizing. To simplify the process, the parts are oxidized in air at 450—700c for 15—20 min.  SUB CODE: 11/ SUB CODE: 12May64/	INVENTOR: Zemskov, G. V.; Shulenok,	P. F.			-
SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 143  TOPIC TAGS: titanium titanium alloy carring, metal surface treatment of ABSTRACT: This Authors Certificate introduces a method of surface treatment of titanium and titanium alloy parts as a preparation for hot aluminizing. To simplify the process, the parts are oxidized in air at 450—700C for 15—20 min.  SUB CODE: 11/ SUB CODE: 12May64/	ORG: none			<i>;</i>	
TOPIC TAGS: titanium, totaling, titanium alloy coating, metal surfacing, huminum plating  ABSTRACT: This Authors Certificate introduces a method of surface treatment of titanium and titanium alloy parts as a preparation for hot aluminizing. To simplify the process, the parts are oxidized in air at 450—700C for 15—20 min.  SUB CODE: 11/ SUB CODE: 12May64/	TITIE: Method of preparation of titar aluminizing. Class 48, No. 186244	nium and titaniu	m-alloy surface before ho	<b>:-</b> .	
ABSTRACT: This Authors Certificate introduces a method of surface treatment of titanium and titanium alloy parts as a preparation for hot aluminizing. To simplify the process, the parts are oxidized in air at 450—700C for 15—20 min.  SUB CODE: 11/ SUB CODE: 12May64/	SOURCE: Izobret prom obraz tov zn, n	o. 18, 1966, 143			
IDC: 621.793.52	ABSTRACT: This Authors Certificate i	ntroduces a meth a preparation fo	od of surface treatment o r hot aluminizing. To si	f	
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JW/JD/HW/JG IJP(c) EWP(k)/EWT(m)/EWP(t)/ETI L 29356-66 UR/0129/66/000/005/0052/0055 (A, N)SOURCE CODE: AP6016594 ACC NRI Zemskov, G.-V.; Shulenok, P. F. AUTHOR: Odessa Polytechnic Institute (Odesskiy politekhnicheskiy institut) TITLE: A new technique for chemical-thermal treatment of transition metals in molten aluminum-base alloys SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1966, 52-55 TOPIC TAGS: refractory metal, titanium, niobium, molybdenum, transition metal, metal oxidation, oxidation resistance, oxidation resistant coating, aluminum alloy coating/VNl niobium, VMl molybdenum ABSTRACT: A hot-dip method for applying aluminum-alloy coatings on transition metals such as titanium, niobium, and molybdenum has been developed. The surface of transition metals should be activated to ensure a satisfactory adhesion of the coating to the base metal. Several methods of activation were tested. The best results were obtained by dipping into a fluoride-base flux, and by oxidation in air at elevated temperatures, 400—550C for VT1 titanium, 250—350C for VN1 niobium, and 350—450C for VM1 molybdenum. The latter method ensures a satisfactory continuity of the coating and a satisfactory adhesion between the coating and the base metal. Complex aluminum-alloy coatings have a much higher protective ability than pure aluminum coating. For instance, aluminum coating on VN1 niobium began to peel after 50 hr at UDC: 621.785:53.669.77/78

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ZEMSKOV, G.V.; SHULENOK, P.F.

Calorizing and aluminum-silicide coating in the molten state of titanium. Zashch, met. 2 no.1:101-103 Ja-F 166.

(MIRA 19:1)

1. Odesskiy politekhnicheskiy institut. Submitted June 7, 1965.

. 15646-66 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) IJP(a) JD/WW/JG/WB BOURCE CODE: UR/0365/66/002/001/0101/0103	
ACC NR: AP6003327 (M)	
AUTHOR: Zemskov, G. V.; Shulenok, P. F.	
ORG: Odessa Polytechnic Institute (Odesskiy politekhnicheskiy institut)	
TITLE: Hot-dip method of coating titanium with aluminum or aluminum-silicon	
SOURCE: Zashchita metallov, v. 2, no. 1, 1966, 101-103  alloy, nutal  TOPIC TAGS: titanium, titanium/coating, caridation fortalism, allicon  protection, aluminum, allicon	
TOPIC TAGS: titanium, titanium coating, contation motorion, aluminum, silicon oxidation, exidation resistance, consaion protection, aluminum, silicon oxidation and gas	
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choometion by aluminum of aramitum	
been investigated. To prevent one after machining by heating to 400-5500 and	
holding for 10-30 min (101 coastings were then immersed into a motion of the same and sound coatings	
with aluminum-silicon alloy). Oxidized specimens were then limited with aluminum-silicon alloy). Oxidized specimens were then limited and sound coatings metal bath for 5—240 min. It was found that the most uniform and sound coatings metal bath for 5—240 min. It was found that the most uniform and held 20—90 min were obtained in titanium oxidized at 400—550C for 10—30 min and held 20—90 min	
Imc: 669.718	
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Card 2/2	

ACC NR: AT6036280

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SOURCE CODE: UR/0000/66/000/000/0122/0129

AUTHOR: Shulenok, P. F.

ORG: Odessa Polyfechnic Institute (Odesskiy politekhnicheskiy institut)

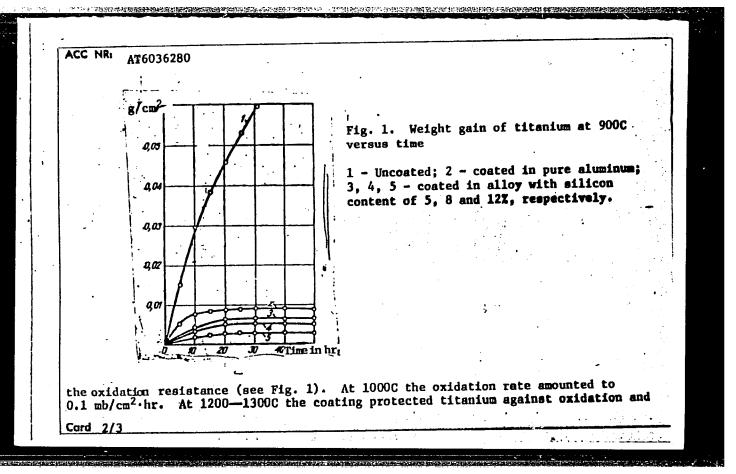
TITLE: Surface alloying of titanium by dipping in molten aluminum

SOURCE: AN UkrSSR. Struktura metallicheskikh splavov (Structure of metal alloys). Kiev, Izd-vo Naukova dumka, 1966, 122-129

TOPIC TAGS: titanium, titanium alloy, surface alloying, titanium surface alloying, metal aluminizing

ABSTRACT: Surface alloying of titanium by dipping in molten aluminum or in aluminum alloys has been investigated. Several alloys were tested to determine the effect ofalloying elements on the oxidation resistance of titanium. It was found that silicon, chromium, beryllium and tin had a beneficial effect, while zirconium, copper and vanadium lowered the oxidation resistance of the coating, particularly at 1000C. The effect of a second element on the oxidation resistance was studied in greater detail on aluminum-silicon alloys. VTl titanium specimens were dipped in molten alloy containing 5, 8, 12, 15, 20 and 30% silicon at 650—1000C. Prior to dipping, the specimens were oxidized in air at 400—550C for 10—30 min. The oxidation behavior of the coated specimens was tested at 700, 800, 900 and 1000C for 100 hr and at 1100, 1200 and 1300C for 20 hr. Coating was found to increase greatly the

Card 1/3



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Yelyutin, V.P., Pavlov, Yu.A., Surovoy, Yu.N. and

AUTHORS:

Electric Conductivity and Thermal Expansion of Shulenov, V.I.

Vanadium, Molybdenum and Tungsten Oxides TITLE

Izvestiya vysshikh uchebnykh zavedeniy, Chernaya

metallurgiya, 1961, No. 7, pp. 12 - 17 PERIODICAL:

The oxides  $V_2O_5$ ,  $MoO_3$  and  $WO_3$  are n-type semi-The electric conductivity of V205 was investigated

by several authors within a very wide range of temperatures

(\*200 to + 1 200 °C). One of these authors did not study the temp\*

(\*200 to + 1 200 °C). One of these authors of this paper whilet TEXT: erature range of interest to the authors of this paper, whilst conductors. the results of the others might have been influenced by the interaction of the  $V_2O_5$  with crucible material. As far as the authors are aware, data on the electric conductivity of MoO3

and  $WO_3$  are available only for temperatures below 200  $^{\rm o}C_{\circ}$ 

Card 1/9

<sup>28065</sup>5/148/61/000/007/001/012 E073/E335

Electric Conductivity

In a special series of experiments with specimens consisting of  ${\rm V_2O_5}$  and finely-ground graphite, pressed and sintered for 6 hours at 250 °C, it was found that the electric resistance increased monotonously at all temperatures with increasing holding time. On the other hand, the electric resistance of pressed graphite powder was found to drop on heating to 300 °C and remained constant on further heating. This behaviour of oxide-plus graphite specimens is attributed to interaction between them, accompanied by the formation of CO  $\div$  CO $_2$ ;

the tarbon consumption of the reduction reaction leads to a decrease in the electric conductivity of the specimen since the conductivity is basically determined by the electric conductivity of the graphite. It follows therefrom that the speed of change of the electric resistance at various temperatures can serve as a characteristic of the speed of the process of reduction of the exide by the carbon. Fig. 5 shows the dependence of the speed of change with time of the electric resistance (AR/A) and Amin) as a function of the temperature of the V<sub>2</sub>O<sub>5</sub> plus C specimens a sharp increase was Card 4/9

25065 S/148/61/000/007/001/012 E073/E335

Electric Conductivity ....

observed at about 380  $^{
m o}$ C. The conclusion drawn is that the beginning of appreciable reduction of the oxides coincides with the transition from impurity- to intrinsic-type conductivity. The results of dilatometric measurements on  $V_2^{05}$ ,  $Mo_3^{00}$  and  $W_5^{00}$ specimens, for heating and cooling rates of 150, 200 and 250 °C/h, respectively, are plotted in Fig.6  $[v_20_5, Mo0_3]$  (Fig.6a),  $WO_3$  (Fig. 65)], (change in length,  $\mu$  versus temperature, °C). The temperature was measured with an accuracy of  $\pm$  10  $^{\circ}$ C and the length with an accuracy of 0.5  $\mu$ . Thermal expansion occurs up to 350, 440 and 680 °C, respectively. From these temperatures upwards, which correspond approximately to the bends in the temperature-electric conductivity curves, contraction of the specimens was observed. This contraction is attributed to polymorphous transformation or to plastic deformation caused by the measuring equipment as a result of the sharp drop in strength of the oxide at this temperature. It is concluded that at the temperature of the beginning of the reduction process, a change is observed in the physical properties, which is accompanied Card 5/9

2005 \$/148/61/000/007/001/012 E073/E335

Electric Conductivity ....

by a sharp decrease in the strength of the sintered specimens and by a slowing-down of the drop in the electrical resistance during heating. The beginning of the intensive chemical interaction corresponds with the transition from impurity- to intrinsic-type conductivity.

There are 6 figures and 9 references: 8 Soviet and 1 non-

There are 6 figures and 9 references; 8 Sowiet and 1 non-Soviet.

ASSOCIATION: Mosko

Moskovskiy institut stali (Moscow Steel

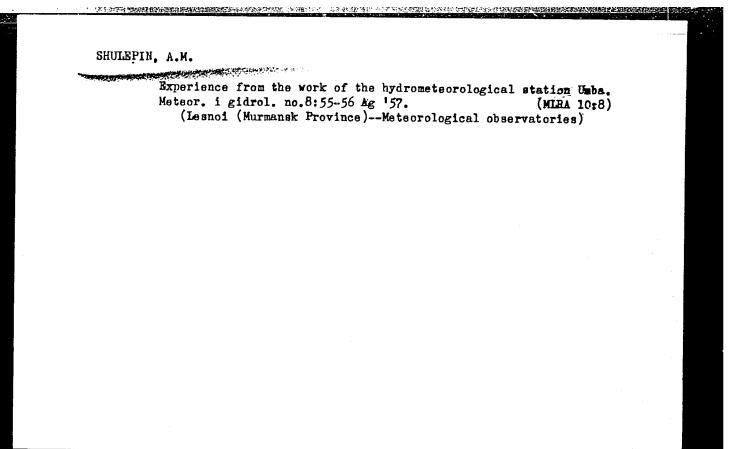
Institute)

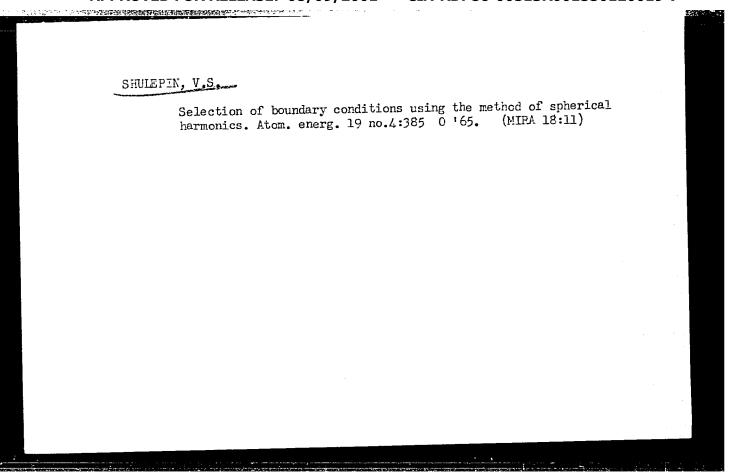
SUBMITTED:

January 25, 1961

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Card 6/9





SHULEPINA, N. A.

(Asst, Chair of Hospital Surgery)
Dissertation: "Cancer of the Mammary Glands According to the Data of Three Surgical Clinics of the TGMI (Turkmen State Medical Institute) imeni I. V. Stalin During the Period 1935-1945." Cand Med Sci, Medical Inst imeni I. V. Stalin, 25 Jun 54. (Turkmenskaya Iskra, Ashkhabad, 13 Jun 54)

SO: SUM 318, 23 Dec. 1954

SHULEPINA, N.A., kand.med.nauk

Stomach cancer. Zdrav.Turk. 3 no.3:3-6 My-Je 159.

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(MRA 12:11)

1. Iz gospital'nov khirurgicheskov kliniki (zav. - prof.I.F.

Berezin) Turkmenskogo gosudarstvennogo meditsinskogo instituta
im. I.V.Stalina.

(STOMACH--CANCER)

JD/WW/JW/JG SOURCE CODE: UR/0032/66/032/008/0968/0970 IJP(c)  $\frac{67}{AP}$  EWT(m)/EWP(t)/ETI  $\frac{67}{AP}$  EWT(m)/EWP(t)/ETI AUTHOR: Pelevin, O. V.; Mil'vidskiy, M. G.; Belyayev, A. I.; Khotin, B. A.; 63 Shulepnikov, M. N.; Voronkov, V. V. 13 ORG: State Scientific Research and Planning Institute of the Rare Metal Industry (Gosudarstvennyy nauchno-issledovatel'skiy i proektniy institut redkometallicheskoy promyshlennosti) TITLE: Determination of the vapor pressure of volatile substances SOURCE: Zavodskaya laboratoriya. v. 32, no. 8, 1966, 968-970 TOPIC TAGS: vapor pressure, selenium, radioactive isotope, temperature dependence, diatomic molecule, thermodynamic analysis ABSTRACT: A static method was developed for determining the vapor pressure from the radioactivity of the vapor, based on a proportional dependence of radioactivity to the quantity of material in the measured volume. In the proposed technique only the molecular composition of the vapor need be known. A schematic diagram of the experimental apparatus shows 13 components. The saturated vapor pressure of selenium was determined at temperatures ranging from 380 to 580°C. Quartz ampoules with weighed portions of Se<sup>75</sup> were evacuated to a pressure of 1-3·10<sup>-6</sup> mm Hg and placed in the apparatus. Calibration curves were obtained by a series of experiments using different weights. Log UDC: 541.12.034.6 Card 1/2

L 06592-67 ACC NR: AP6029854 O  $P_{\mathsf{Se}}$  is given as a function of temperature,  $P_{\mathsf{Se}}$  being determined by measuring the counting rate for different condensate and/or vapor temperatures during heating and cooling. In the presence of a condensate, the counting rate depended exponentially on the condensate temperature, while after full vaporization, the counting rate was directly proportional to the average absolute temperature of the vapor phase. Thermodynamic equations were given for the dissociation process Se<sub>6</sub> \* 3Se<sub>2</sub> and the free energy was related to the Se<sub>2</sub> concentration, the vapor pressure, and the cross section area and length of the ampoule. By extrapolating the rate constant for saturated selenium vapors to 933°K, the minimum temperature of the lower zone of the calibration curve,  $P_{\text{Se}_2}$  was calculated to be 95% P. For unsaturated vapors a new equilibrium condition was established with even greater quantities of diatomic molecules. The heat of vaporization of selenium was calculated to be 25.6 Kcal/mol. The above method may be used for determining the molecular composition of vapors. Orig. art. has: 2 figures, 2 formulas. SUB CODE: 20,18/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 004 Card 2/2 N

EWT(1)L 44680-66 SOURCE CODE: UR/0413/66/000/001/0110/0110 ACC NR: AP6005364 AUTHORS: Khlebnikov, S. P.; Shulepov, A. A. ORG: none Class 42, No. 177693 Zannounced by TITLE: Method for producing a regulated delay. Institute of Automation and Remote Control (Technical Cybernetics) (Institut avtomatiki i telemekhaniki (tekhnicheskoy kibernetiki) )\_/ SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 110 TOPIC TAGS: delay mechanism, magnetic tape, magnetic recording ABSTRACT: This Author Certificate presents a method for producing a regulated delay by varying the loop length between the record and the readout heads with the aid of a movable carriage for constant tape speed. To increase the maximum allowable time delays up to a double value with fixed length and direction of motion of the tape ring, for recording and readout of information the general-purpose magnetic heads are functionally switched during the motion of the movable carriage to a position corresponding to the maximum loop length between the heads for the given design. For readout of information recorded on this loop to the moment of switching, an additional head is connected temporatily to the input of the reproduction amplifier. This head is disconnected when it reads out a magnetic mark produced on the

Card 1/2

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001550120019-7

L 14444-66

ACC NR: AP6002971

SOURCE CODE: UR/0286/65/000/024/0145/0145

INVENTOR: Lobov, A. G.; Ol'shanskiy, A. V.; Shulepov, L. V.

ORG: none

TITLE: A tractor with a bulldozer attachment. Class 63, No. 177286 [announced by the Red Banner Military Engineering Academy im. V. V. Kuybyshey (Voyenno-inzhenerna-ya krasnoznamennaya akademiya)]

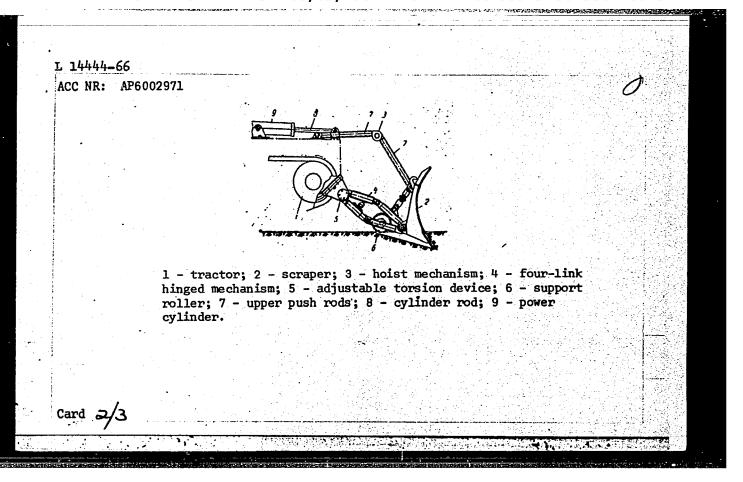
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 145

TOPIC TAGS: tractor, construction machinery

ABSTRACT: This Author's Certificate introduces: 1. A tractor with a bulldozer attachment including a scraper blade, a blade-raising mechanism, upper push rods, lower push rods which are four-link hinged mechanisms with flexible connections and a support roller mounted on one of the bottom links. The device is designed for uniform load distribution on the caterpillar tread of the tractor and for reduced frame vibration during motion. The rear end of the tractor body is made in the form of the bulldozer scraper attachment mounted so that it can be moved into the working

Card 1/3

UDC: 621.868.238.6 : 621.878.23



T. 14444-66

ACC NR: AP6002971

position by the hoist mechanism with interhinged upper push rods. One of these rods is also hinged to the scraper device and the others are hinged to the tractor. The rods of power cylinders mounted on the tractor are fastened by hinges to these push rods. 2. A modification of this tractor in which each of the hinged four-link mechanisms of the bulldozer attachment is made with a flexible connection in the form of an adjustable torsion device mounted in the hinge which fastens the four-link mechanism to the tractor.

SUB CODE: 13/ SUBM DATE: 26Nov64

Card 3/3

SHULEFOV, S. V.

SHULEFOV, S. V. — "Effect of Temperature on the Process of Graphitization of Coke." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Moscow State Pedagogical Inst imeni V. I. Lenin, Moscow, 1955.

SO: Knizhnaya Letopis' No. 31, 30 July 1955.

\*For the Degree of Candidate in Physicomathematical Sciences.

USSR/Sclid State Physics - Phase Transformations in Solids, E-5

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34713

Author: Kunin, N. F., Shulepov, S. V.

Institution: Chelyabinsk Institute of Mechanization and Electrification of Agri-

culture USSR

Title: Effect of Temperature on Graphitation of Cokes

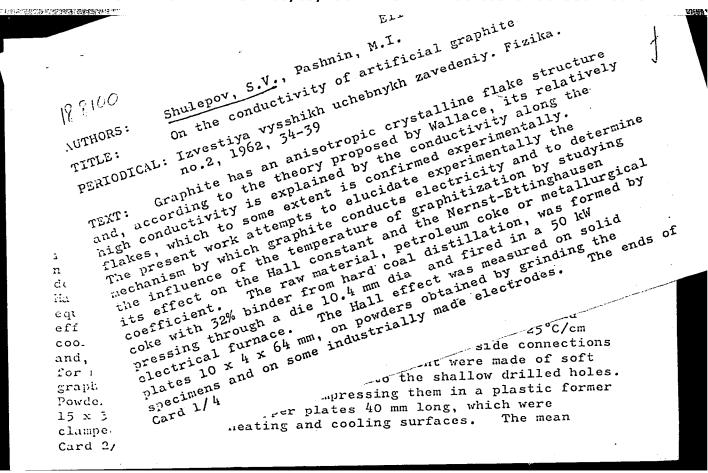
Original Periodical: Dokl. AN SSSR, 1955, 104, No 3, 401-414

Abstract: An investigation was made of graphitation of cokes using the method of measuring the thermal emf in specimens roasted at various temperatures. When roasting at 1,000-1,400° the thermal emf diminishes insignificantly, at 1,400-2,100° it rises sharply, and a further increase in temperature causes a sharp drop in the emf. The reduction in the thermal emf at temperatures from 1,000-1,400° is due to the removal of volatile components of the coke; the increase of the thermal emf at 1,400-2,000° is explained by the growth of the graphite layers, and the reduction in the thermal emf at temperatures above 2,100° is due to the formation of a 3-dimensional graphite structure. The scaking time (from one to 7 hours) at temperatures of 2,100-2,600° does not affect the value of the thermal emf.

1 of 1

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5/139/62/000/002/006/028 E114/E435

On the conductivity ....

gradient was 25°C/cm, and in the middle of the specimen 13°C/cm. The Nernst-Ettinghausen coefficient was measured at magnetic field strengths not exceeding 8000 gauss, and was thus independent of Results are shown for graphite made at different temperatures starting with petroleum coke, but it was proved experimentally that other starting materials give similar results. The Nernst-Ettinghausen coefficient was negative and was directly proportional to the temperature of graphitization. For solid electrodes, it was about 40 times greater than for powders, e.g. for solid specimens formed at 2600°C it was  $14 \times 10^{-2}$  absolute units. Since this coefficient is property Since this coefficient is proportional to the mobility of current carriers, its growth with temperature implied increased mobility due to larger crystal size. Discrepancy between experimental and analytical determination at lower temperatures was assumed to be due to incomplete Concentration of free electrons per atom was found to be  $4 \times 10^{-4}$ . As temperature of graphitization increased beyond 2000°C, the Hall constant, the Nernst-Ettinghausen coefficient and the electrical resistance of graphite all decreased. Card 3/4

SHULEPOV, S.V.; DORZHIYEV, M.N.; PIECHEV, V.N.

Dilatometer for studying the thermal expansion of graphite. Zav.lab.
(MIRA 16:5)
29 no.5:624-625 '63.

1. Chelyabinskiy pedagogicheskiy institut i Chelyabinskiy
elektrometallurgicheskiy kombinat.
(Graphite—Thermal properties)
(Expansion of solids)

L 16317-65 EWG(j)/EWP(e)/EWT(m)/EPF(c)/EPR/EWP(j)/T-2/EWP(b) Pc-4/Pr-4/
Ps-4 WN/RM/WH S/0058/64/000/009/E066/E066
ACCESSION NR: AR5000761

SOURCE: Ref. zh. Fizika, Abs. 9E479

AUTHORS: Shulepov, S. V.; Smirnova, E. A.; Plechev, V. N.

TITLE: Effect of processing emperature on the moduli of elasticity of carbon containing materials

CITED SOURCE: Tr. Chelyab. gos. ped. in-t, v. 2, 1964, 145-152

TOPIC TAGS: carbon, coke, graphitization, modulus of elasticity

TRANSLATION: The authors investigated the Young and shear moduli of samples of tar, cracking, pyrolysis, and sulfurous oil cokes heat-treated in the temperature interval 1273-2773K. It is observed that the moduli of elasticity of all of the investigated materials decrease with processing temperature and reach a minimum at 2273K. Furmaterials decrease with processing temperatures leads to an increase in the ther graphitization of the material at higher temperatures leads to an increase in the

Card 1/2

L 16317-65 ACCESSION NR: AR50007	761	
moduli. It is established the samples come into pla The decrease in the modu between the grids of the a	that the specific features of t ny up to the highest investigat li of elasticity is attributed t	the initial raw material used for ted graphitization temperatures. o destruction of the "bridge" bonds defects of all kinds. The increases 3K is connected with the occurrence
and development of the or	dered on	ENCL: 00
SUB CODE; MT		
	[	사람들이 있는데 회원들이 불어보고 있는데, 동안 등에 발생한 수가 있는 사람들이 가장 중심하는 사람들이 하는데 그렇게 되었다.

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CCESSION NR: AR4046544	g/0058/84/000/300/200/-
OURCE: Ref. zh. Fizika, Abs. 8E4	36 B
UTHOR: Shulepov, S. V.	
TITLE: Thermoelectric properties	
CITED SOURCE: Tr. Chelyab. gos. p	ped. in-t, v. 2, 1964, 159-164
electric property	ce, thermal emf, annealing, thermo-
a minimum at 15731673K, and a magnitude of the col	nnealing temperature of the coke has aximum at ~2,773K for all types of

L 10886≠65		0 =	
ACCESSION NR: Al	ACCESSION NR: AR4046544		
perature is conne with the ordering the TE of cokes were	character of the dependence of the ected with the burning-out of the g of the carbon atoms. The obserwith processing temperature suggestated on carbon, with specified	impurities and even variation of ests that a material thermoelectric	
properties and w	ith a definite type of conductivi	TV. F. Belov.	
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SABININ, K.D. (Moskva); SHULEPOV, V.A. (Moskva)

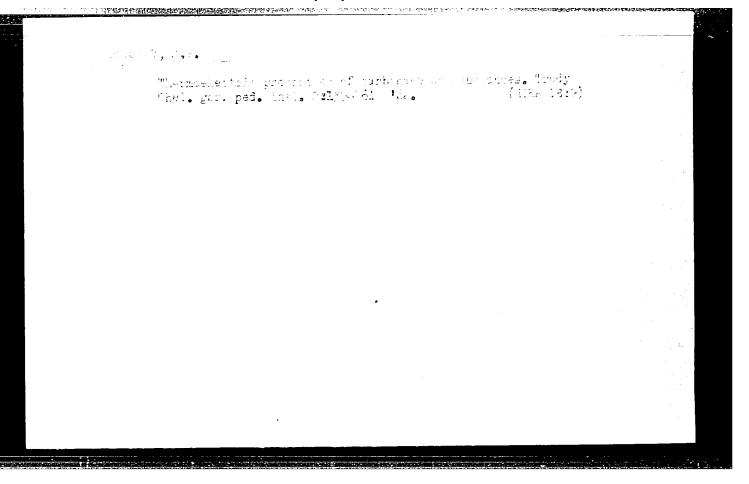
Short-period internal veves of the New to G

Short-period internal waves of the Norwegian Sea. Okeanologia 5 no.2:264-275 '65. (MIRA 18:6)

ESSION NR: AP5022245	UR/0363/65/001/007/1005/1009 3 8 7 546.26-162:539
nyushkina, M. V.	N. V.; Sukhorukov, I. F.; Rodionov, S. G.;
LE: Defects of the microstructure of	f synthetic graphite /5
	neskiye materialy, v. 1, no. 7, 1965,
tined hot-extruded graphite and the distant their influence on the basic cerial. Electrode material, "green" aphitic carbon materials produced by	a microscopic study of fine- and medium- etermination of the microstructural de- physicomechanical properties of the and heat treated electrode blanks, and domestic electrode plants were investi- rates, i.e., round masses with a circular all the samples. The properties of the g conglomerates are compared. It is found

SHULEPOV, S.V.; SMIRNOVA, E.A.; PLECHEV, V.N.

Effect of the temperature of treatment on the moduli of elasticity of carbonaceous materials. Trudy Chel. gos. ped. inst. 2:145-152 (MIRA 18:9)



的,我们就是一个人,我们就是一个人,我们就是一个人的人,我们就是一个人的人,我们们的人的人,我们也没有一个人的人,我们们就是一个人的人,我们就是一个人的人,我们

SHULLIOV, S.V.; O-WCHEPKOVA, N.V.; SUKHCRUKOV, I.F.; RCDIONOV, S.G.; PRONYTSHKINA, M.V.

Microstructure defects of artificial graphite. Izv.AN SSSR.Neorg. mat. 1 no.7:1005-1009 J1 '65. (MIRA 18:9)

l. Gcsudarstvennyy nauchno-issledovatel'skiy institut elektrodnoy promyshlennosti.

Thermal expansion of coke-pitch materials under different heat treatment in the low and high temperature ranges. Trudy Chal. gas. ped. inst. 2:153-158 '64. (MIRA 18:9)

21211-66 EVT(1)ACC NR: AP6011945 SOURCE CODE: UR/0213/65/005/006/1038/1042 AUTHOR: Chindonova, Yu. G.; Shulepov, V. A. ORG: Acoustics Institute AN SSSR(Akusticheskiy institut AN SSSR) Sound-scattering layers as indicators of internal waves in the ocean TITLE: Okeanologiya, v. 5, no. 6, 1965, 1038-1042 12, TOPIC TAGS: acoustic echo, ocean acoustics, biologic ecology, acoustic scattering, oceanography, sonar, oceanographic expedition ABSTRACT: During the voyages of the "Petr Lebedev" in the winter-spring seasons of 1962-1964 the depth of the ocean floor was measured by an echo sounder; it also was possible to obtain records of sound-scattering layers. This paper discusses the collected data on these layers to determine their relationship to internal waves. The observations were made in the open ocean, and therefore the results differ from earlier studies made in coastal and shallow waters; the variations of the soundscattering layers have greater amplitudes and the layers are at greater depths. is shown that data on the distribution of these layers can yield important information on the amplitudes of the internal waves and the depths to which they penetrate. In addition, the results give additional information on the ecology of pelagic animals populating the ocean. A table gives data on the location, time, amplitudes, wave lengths and depths of sound-scattering layers whose distribution is related to internal waves. Orig. art. has: 2 figures and 1 table. [JPRS] SUB CODE: 08, 06, 20, 17 / SUBM DATE: 19Jul65 / ORIG REF: 003 / OTH REF: Card 1/1 F(i)UDC: 577.472(26)

AUTHORS:

Mozzhukhin, Ye.I., Shulepov, V.I.

32-3-39/52

TITLE:

The Application of Coal- and Graphite Heating Elements in the TVV-2 Furnace (Primeneniye ugol'nykh grafitovykh nagrevatele

v pechi TVV-2)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr3, pp. 359-360 (USSR)

ABSTRACT:

In the laboratory for powder metallurgy of the institute mentioned below the tungsten heating elements of the TVV-2 furnace were exchanged. This exchange can be repeated and takes 20-25 minutes. When using carbon tubes with an outside diameter of 70 mm and an inner diameter of 60 mm work could be carried out only up to a temperature of 1200 °C; for higher temperatures graphite heating elements of a special shape were developed. The furnace was used for work carried out in an inert gas atmosphere, in which case, however, various alterations had to be carried out. For work carried out in a gas-atmosphere the tungsten heating elements gave satisfaction and so did graphite heating elements. It is not advisable to work in an atmosphere of dissociated ammonia, because the small quantity of undissociated portion may cause considerable

Card 1/2

#### CIA-RDP86-00513R001550120019-7 "APPROVED FOR RELEASE: 08/09/2001

The Application of Coal- and Graphite Heating

32-3-39/52

Elements in the TVV-2 Furnace

corrosion in the copper body of the furnace. There is 1 figure.

ASSOCIATION: Moscow Steel Institute imeni I.V. Stalin (Moskovskiy institut

stali im. I.V. Stalina)

Library of Congress AVAILABLE:

> 1. Laboratory furnaces-Modifications 2. Heating elements-Test methods 3. Heating elements-Test results

Card 2/2

SOV/137-59-1-575

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 75 (USSR)

Yelyutin, V. P., Mozzhukhin, Ye. I., Shulepov, V. I. AUTHORS:

Effect of Combined Chemical and Heat Treatment on Heat Resistance TITLE:

of Alloys (Vliyaniye khimiko-termicheskoy obrabotki na zharoupornost'

splavov)

PERIODICAL: Sb. Mosk. in-t stali, 1958, Nr 38, pp 427-432

ABSTRACT: The authors investigated the effect of combined chemical and heat treatment (CHT) of the surface of specimens of a TiC base (71.5%

TiC) alloy cemented with a NiAl compound containing 54 atom-% Ni and 60 atom-% of metallic Nb, Zr, Cr, or Be on the resistance to scale formation at 1150 - 1250°C. The CHT consisted of annealing of the specimens covered with a 50:50 mixture of ZrO2 and alloying metal and 1% NH4Cl in an H2 atmosphere at 15000. Saturation of the surface with niobium and zirconium does not improve the resistance to scale formation of TiC - NiAl alloys. CHT with beryllium and chromium increases the heat resistance by 1900% and 200%, respec-

tively. The authors note that a change in the procedure of saturation

of the alloy surface with chromium (for example at 11500 temperature Card 1/2

SOV/137-59-1-575

Effect of Combined Chemical and Heat Treatment on Heat Resistance of Alloys

in an atmosphere of air) has no effect on its resistance to scale formation. However, CHT conditions should remain constant (1500° temperature for 0.5 hour) for Be, because any difference in the interaction between Be and TiC and NiAl results in a different concentration of Be in these phases. The authors submit that during longer CHT Be reacts predominantly with the NiAl and that the TiC grains become exposed, which lowers the resistance to scale formation of these alloys.

R.A.

Card 2/2

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FUNKE, V.F.; SHURSHAKOV, A.N.; YUDKOVSKIY, S.I.; KUZHEFSOVA, K.F.; SHULEPOV, V.I.; YURKEVICH, Yu.N.

Electric resistance and structure of WC-Co alloys. Fiz. met. i metalloyed. 10 no.2:207-215 Ag 160. (MIRA 13:9)

1. Veseoyuznyy nauchno-issledovatel skiy institut tverdykh splavov.

(Tungsten carbide) (Cobalt-tungsten alloys--Metallography)

(Electric resistance)

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001550120019-7

AUTHORS:

Yelyutin, V. P., Natanson, A. K.,

5/032/60/036/03/036/064

Shulepov, V. I., Yudkovskiy, S. I.

B010/B117

TITLE:

A Device Used to Measure the Electric Resistance of Alloys at High

Temperatures

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol 36, Nr 3, pp 344-346 (USSR)

TEXT: A special device has been designed (Fig 1) for measuring the electric resistance of samples  $1 \times 6 \times 20$  up to  $10 \times 15 \times 40$  mm in size and used in powder metallurgy, at 2000 to 2500°, with a standard furnace of the type TVV-4 used to heat the samples. The sample is attached to molybdenum- or tantalum electrodes by spot welding. The electric resistance is measured by the compensation method (Fig 2, circuit diagram), and calibrated resistors—are used which were

calculated by the following equation:  $R_x = R_E \cdot \frac{V_x}{V_E}$  ( $R_x$  and  $R_E$  = electric resistances of the sample and the calibration sample,  $V_x$  = voltage drop in the sample,  $V_E$  = voltage drop in the calibration sample). Phase transformations

occurring in Ni-Al-Be alloys were investigated, and it was found that the electric resistance ranging between 0.1 and 0.5 ohm has to be measured at

Card 1/2

YELYUTIN, V.P.; PAVLOV, Yu.A.; SUROVOY, Yu.N.; SHULEPOV, V.I.

THE STATE OF THE PROPERTY OF T

Electrical conductivity and thermal expansion of vanadium, molybdenum and tungsten oxides. Izv. vys. ucheb. zav.; chern. met. 4 no.7:12-17 '61. (MIRA 14:8)

1. Moskovskiy institut stali.
(Metallic oxides—Electric properties)
(Expansion (Heat))

LYSOV, B.S., kand.tekhn.nauk [translator]; MOZZHUKHIN, Ye.I., kand.tekhn.nauk [translator]; SHUIEPOV, V.I., kand.tekhn.nauk [translator]; IVANOV, A.F. [translator]; SIROTINA, Ye.P. [translator]; NATANSON, A.K., kand.tekhn.nauk, red.; ALEKSEYEV, V.A., red.; DZHATIYEVA, F.Kh., tekhn.red.

[Molybdenum] Molibden; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1962. 393 p. Translated from the English. (MIRA 15:5)

S/076/62/036/007/007/010 B101/B138

AUTHORS: Yelyutin, V. P., Pavlov, Yu. A., Shulepov, V. I., and Myaki-

sheva, T. G.

TITLE: Electrical resistivity of V205, MoO3, and WO3 when heated in

hydrogen atmosphere

PERICDICAL: Zhurnal fizicheskoy khimii, v. 36, no. 7, 1962, 1524 - 1527

TEXT: The initial stage of the reaction of  $V_2O_5$ ,  $MoO_3$ , and  $WO_3$  with  $H_2$  was studied by measuring the electrical resistivity (apparatus see Izv. vyssh. uchebn. zavedeniy, Chernaya metallurgiya, no. 7, 1961). Oxides sintered in an  $O_2$  flow for 6 hr were used. At all temperatures applied (200 -  $700^{\circ}$ C), resistivity was found to diminish in the course of heating. MR/RAT for  $V_2O_5$  was 0.002 at 250°C, 0.004 at 300°C, 0.007 at 350°C, 0.016 at 375°C, and 0.027 at 380°C (start of reaction with  $H_2$ ). For MoO<sub>3</sub> and  $WO_3$ , MR/RAT rose slowly at low temperatures, and rapidly near the beginn-

Card 1/2

Electrical resistivity ...

S/076/62/036/007/007/010 B101/B138

ing of reaction with H<sub>2</sub>(430°C for MoO<sub>3</sub>, 630°C for WO<sub>3</sub>). The slow rise corresponds to the extrinsic conductivity of the oxides with chemisorbed H<sub>2</sub> reacting as donor with the oxide, while the steep rise of the curve is due to the changeover to intrinsic conductivity. Here, an intense reaction with H<sub>2</sub> starts in the gaseous phase owing to sublimation (dissociation) of the oxide. There are 4 figures and 1 table.

ABBUCIATION: Moskovskiy institut stali (Moscow Steel Institute)

EUBMITTED: March 1, 1960

Card 2/2

FUNKE, V.F.; SHUIEPOV, V.I.; YUDKOVSKIY, S.I.

Dependence of the electric resistance of WC-Co alloys on their structure. Fiz. met. i metalloved. 13 no.5:794-795 My '62. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.

(Tungsten-cobalt alloys-Electric properties)

YELYUTIN, V.P.; PANOV, A.V.; NATANSON, A.K.; SHULEPOV, V.I.; VASILIYEV, O.A.

Apparatus for measuring internal friction and shear modulus at high temperatures. Zav. lab. 28 no.9:1123-1126 '62. (MIRA 16:6)

1. Moskovskiy institut stali i splavov. (Testing machines)

ACC NR: AT6010576 (N) SOURCE CODE: UR/0000/65/000/000/0083/0095  AUTHOR: Mal'tsev, M. V.; Shulepov, V. I.; Britnev, G. P.; Zhdannikova, V. N.; Dannelyan, T. A.; Popova, Yu. S.; Fadotov, E. I.; Sheynberg, B. N.  ORG: All-Union Institute of Light Alloys (Vsesoyuznyy institut legkikh splavov)  TITLE: Some data on the kinetics of the dissociation of a solid solution of interstitial impurities in cast molybdenum  SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 83-95  TOPIC TAGS: molybdenum, cast alloy, solid solution, crystal impurity, crystal lattice defect  ABSTRACT: The authors study the effect which the number and distribution of crystal lattice defects have on dissociation of a solid solution of interstitial impurities in molybdenum. The density and distribution of dislocations in cast molybdenum are determined principally by the parameters of the crystallization process (the rate of crystallization, temperature gradient in the liquid and solid metal etc.). An x-ray analysis of a molybdenum single crystal produced by electron-beam zone melting and			
AUTHOR: Mal'tsev, M. V.; Shulepov, V. I.; Britnev, G. P.; Zhdannikova, V. N.; Dannelyan, T. A.; Popova, Yu. S.; Fedotov, E. I.; Sheynberg, B. N.  ORG: All-Union Institute of Light Alloys (Vsesoyuznyy institut legkikh splavov)  TITLE: Some data on the kinetics of the dissociation of a solid solution of interstitial impurities in cast molybdenum  SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 83-95  TOPIC TAGS: molybdenum, cast alloy, solid solution, crystal impurity, crystal lattice defect  ABSTRACT: The authors study the effect which the number and distribution of crystal lattice defects have on dissociation of a solid solution of interstitial impurities in molybdenum. The density and distribution of dislocations in cast molybdenum are determined principally by the parameters of the crystallization process (the rate of crystallization, temperature gradient in the liquid and solid metal etc.). An x-ray analysis of a molybdenum single crystal produced by electron-beam zone melting and	. •	L 24473-66 EWT(m)/T/EWP(t) IJP(c) JG/JD/GS	
Dannelyan, T. A.; Popova, Yu. S.; Fedotov, E. I.; Sheynberg, B. N.  ORG: All-Union Institute of Light Alloys (Vsesoyuznyy institut legkikh splavov)  TITLE: Some data on the kinetics of the dissociation of a solid solution of interstitial impurities in cast molybdenum  SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 83-95  TOPIC TAGS: molybdenum, cast alloy, solid solution, crystal impurity, crystal lattice defect  ABSTRACT: The authors study the effect which the number and distribution of crystal lattice defects have on dissociation of a solid solution of interstitial impurities in molybdenum. The density and distribution of dislocations in cast molybdenum are determined principally by the parameters of the crystallization process (the rate of crystallization, temperature gradient in the liquid and solid metal etc.). An x-ray analysis of a molybdenum single crystal produced by electron-beam zone melting and		ACC NR: AT6010576 (N) SOURCE CODE: UR/0000/65/000/000/0083/0095	
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containing interstitial impurities of carbon (0.01%) and oxygen (0.0015%) under optical and electron microscopes showed that the crystal is a single-phase solid solution of interstitial impurities in molybdenum. An entirely different picture is observed in cast molybdenum produced by arc melting. The decay of the solid solution in the ingots is localized on polygonization boundaries where the adjacent interstitial atoms are segregated. The compression stresses which arise at the interfaces tend to separate the crystals and are a cause of high britileness in the cast metal. The polygonization single crystal in castion lybdenum is basically a saturated solid solution of interstitial impurities which decays only in widely scattered isolated sections. At the same time, the ductility of the polygonization single crystals is usually as high as in single crystals grown by zone melting. (Various methods for increasing the ductility of cast molybdenum are discussed. Orig. art. has: 15 figures.

SUB CODE: 11,20/ SUBM DATE: 26Sep64/ ORIG REF: 001/ OTH REF: 000

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JT/JD/JG/CD r 11057-99 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) ACC NR: SOURCE CODE: UR/0000/65/000/000/0125/0130 AUTHOR: Mai'tsev, M. V.; Shulepov, V. I. ORG: Ali-Union Institute of Light Alloys (Vsesoyuznyy institut legkikh splavov) TITLE: Nature of the brittleness of molybdenum SOURCE: AN UkrSSR. Fizicheskaya priroda khrupkogo razrusheniya metallov (Physical nature of brittle failure of metals). Kiev, Izd-vo Naukova dumka, 1965, 125-130 metallurgy TOPIC TAGS: molybdenum, brittleness, crystal impurity, plasticity, phase composition bivogrico municiply and commoded sites of motivose bild ABSTRACT: On the basis of a literature survey it is shown that molybdenum, a naturally plastic metal, becomes brittle at low temperatures if it contains even less than one-hundrethh of a percent of interstitial impurities: carbon, oxygen, nitrogen and hydrogen, since then a considerable amount of second phase may still form. E.g. if a carbide of the Mo\_Me\_C type segregates in Mo containing metal impurities, an 0.01% C impurity will form a second phase amounting to several vol. %. Clearly, in real metal there form even less compact compounds of Mo, interstitial impurities and metallic impurities -- oxycarbonitrides, whose volumetric content in equilibrium state at low temperatures may be quite substantial. The energy of inter-1/3 Card

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action between dislocations and interstitial atoms should be maximal for metals of the VI group, and so should be the elastic stresses that arise in the matrix during the segregation of interstitial atoms on dislocation pile-ups or on grain boundaries. Hence, the decomposition of the solid solution, which in cast Mo localizes chiefly at the polygonization boundaries, and in deformed Mo, at high temperatures, both on the grain boundaries and in the grain interior, is accompanied by a type of hardening such that the metal is brittle in the sites where this decomposition takes place. There exist several theories of the mechanism of action of interstitial impurities. Of these, the most common is the theory attributing the high brittleness of metals in the VIA group to the formation, around the individual dislocations, of Cottrell atmospheres consisting of atoms of interstitial impurities which sharply reduce the mobility of dislocations. However, numerous experimental findings contradict this theory. In particular, it is widely known that the individual crystals into which a Mo ingot readily divides represent a supersaturated solid solution and at the same time display high plasticity. An interesting finding is, in this connection, presented by B. A. Movchan (Fizicheskiye'i khimicheskiye neodnorodnosti v litom metalle. K., Gostekhizdat UkrSSR, 1960): the high brittleness of cast molybdenum may be largely explained by the formation of a network of polygonization boundaries during the cooling of the ingot. In ordinary dispersion-hardening alloys of the duraluminum type, the hardened state is unstable at high temperatures. Isothermal exposure is followed by the reaction: Guinier-Preston zones -dispersion segregations -coagulated second-phase

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segregations. By contrast, in Mo the atomic volume of the segregating interstitial phase per atom of metal is much greater than in the original solid solution, and hence coagulation of second-phase segregations is sharply inhibited, by virtue of thermodynamic considerations (hydrostatic pressure arising around the second-phase particle during its segregation). Hence, (hydrostatic pressure arising around the second-phase particle during its segregation). Hence, if the second-phase segregations are coagulated in Mo by some technique (e.g. special heat if the second-phase segregations are coagulated in Mo by some technique (e.g. special heat interest that it is allowed a proposed above, the conditions for the formation of the metal are created in these sites. As a result, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by another, one mechanism of high brittleness of Mo -- dispersion hardening -- is replaced by a

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JD/36/65 EWI(m)/!/ENF(t)/~1] -100(z)SOURCE CODE: UR/0000/66/000/000/0018/0021 1 04180-57 ACC NR: AT6026903 AUTHOR: Piguzov, Yu. V.; Verner, V. D.; Shulepov, V. I.; Rzhevskaya, I. Ya. ORG: none TITLE: A study of the behavior of interstitial atoms in molybdenum by means of internal friction SOURCE: AN SSSR. Institut metallurgii. Vnutrenneye treniye v metallakh i splavakh (Internal friction in metals and alloys). Moscow, Izd-vo Nauka, 1966, 18-21 TOPIC TAGS: internal friction, molybdenum, carbon, nitrogen, oxygen, activation energy, temperature dependence, solid solution, quenching, tempering, plastic deformation ABSTRACT: An internal friction study was made of the effects of C, O, and N, additions in molyhdenia. The temperature department of the effects of C, O, and N, additions in molybdenum. The temperature dependence of internal friction was measured in a vacuum on samples of 1 mm width and 0.35 mm thickness. Oscillation frequencies ranged from 0.5 to 2.1 cps. Quenched samples exhibited a wide internal friction peak, spread over the range 60-400°C, the height of which increased linearly as a function of quenching temperature due to the higher solubilities of the interstitial atoms. The concentration ratio  $C/C_{max}$  for C,  $N_2$  and  $O_2$  corresponded with the internal friction ratio  $Q^{-1}/C_{max}$ The peak itself consisted of three components--I, II, III--a high central por-Card 1/2

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tion (II) and two neighboring plateaus (I, III). The related activation energies as determined by the Wert-Marx method were 26, 32, and 39 Kcal/mol for I, II and III re-

tion (II) and two neighboring plateaus (I, III). The related activation energies as determined by the Wert-Marx method were 26, 32, and 39 Kcal/mol for I, II and III respectively. Component III was associated with carbon since it vanished after quenching from 1000°C, and the concentration of carbon in solid solution is negligible below 1200°C. The central component II may have been caused by oxygen since oxygen is the most soluble interstitial in molybdenum; also Q<sup>-1</sup>/Q<sup>-1</sup><sub>max</sub> correlated best with O<sub>2</sub>/O<sub>2</sub>.

Component I was probably caused by nitrogen. The activation energy for nitrogen diffusion in molybdenum was previously determined by Hartley and Wilson to be 25.1 \* 2.7 Kcal/mol. The peaks and the low temperature background decreased in magnitude after tempering at 600°C for 30 min, or in quenched samples after annealing in hydrogen at 1600°C. Deformation of vacuum annealed samples pushed the high temperature side toward the left, either as a result of the breakaway of dislocations from Cottrell atmospheres or because of localized differences in deformation conditions. Orig. art. has: 6 figures.

SUB CODE: 11,20/ SUBM DATE: 02Apr66/ ORIG REF: 001/ OTH REF: 004

Card 2/2 XC

SHEVTSOV. P.P., kand.tekhn.nauk; SHULEPOV, V.N., inzh.

THE PROPERTY OF THE PROPERTY O

Acceleration of fast tractors with speed shift during running. Trakt. i sel'khozmash. no.9:1-3 S '65. (MIRA 18:10)

1. Volgogradskiy sel¹skokhozyaystvennyy institut.

ZAYTSEVA, K.A.; SHULEPOV, Yu.V.; AL'TSHULER, M.A.

Deposition of aerosols from laminar flow under the effect of gravity. Koll.zhur. 23 no.6:687-689 N-D '61. (MIRA 14:12)

1. Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev.
(Aerosols) (Laminar flow)

1,3804

s/069/62/024/006/009/009 B101/B180

24.1420

Shulepov, Yu. V., Dukhin, S. S.

AUTHORS:

Theory of electrical coagulation of spherical aerosol

TITLE:

particles

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 6, 1962, 749-751

The capture efficiency E of one aerosol particle by another is calculated from the general equations  $m_1 d\vec{v}_1/dt = \vec{F}_1 + m_1 g + \vec{F}_{12e}$  and

 $m_2 d\vec{v}_2/dt = \vec{F}_2 + m_2 g\vec{\xi} - \vec{F}_{12e}$ , where  $m_1 = (4/3)\pi R^3 \gamma$  and  $m_2 = (4/3)\pi R^3 \gamma$ are the masses of the first and the second particle, respectively; is the particle density, R<sub>1</sub> and R<sub>2</sub> the radii; g is gravitational acceleration; is the vertical unit vector;  $F_{12e}$  is the force of electrical interaction between the particles;  $\vec{v}_1$  and  $\vec{v}_2$  are the velocity vectors of the first and second particle, respectively; t is the time; F<sub>1</sub> and F<sub>2</sub> are the forces Card 1/3

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Theory of electrical coagulation of ...

which, owing to the viscosity of the medium, act on particles 1 and 2. Attempts by L. M. Levin and R. Cochet (L. M. Levin, Dokl. AN SSSR, 94, no. 3, 1954; R. Cochet, Ann. geophys., 8, 33, 1952) to solve the above set of equations are discussed. It is shown that solutions can be obtained for any ratio of the particle radii,  $R_2/R_1$ , using the following set of equations:  $6\pi \eta R_1 dx_1/dt = K(x_2 - x_1)/[(x_1 - x_2)^2 + (y_1 - y_2)^2]^3$ ;  $6\pi \eta R_2 dx_2/dt = m_1 g + K(y_2 - y_1)/[(x_1 - x_2)^2 + (y_1 - y_2)^2]^3$ ;  $6\pi \eta R_2 dx_2/dt = m_2 g - K(y_2 - y_1)/[(x_1 - x_2)^2 + (y_1 - y_2)^2]^3$ ; here,

 $K = 2Q_1^2R_2^3$ , and  $Q_1$  is the electrical charge of the first particle. When the larger particle is charged and the smaller one uncharged, the capture efficiency is given by  $E_2 = (45/16gp)^{2/5}Q_1^{4/5}R_2^{4/5}\left[R_1^{12/5}(R_1 - R_2)^{2/5}, \text{ but efficiency is given by } E_2 = (45/16gp)^{2/5}Q_1^{4/5}R_2^{4/5}\right]$ 

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Theory of electrical coagulation of ...

when the smaller one or both the particles are charged, then  $E_3 = (45/16gV)^{2/5}Q_2^{4/5}R_1^{-6/5}R_2^{-2/5}(R_1 - R_2)^{-2/5}; E_1 = 3Q_1Q_2/\pi g/R_1^3(R_1)$ 

The known formulas, derived on the basis of the elementary act of electrical coagulation as a one-body problem, are particular cases of the formulas derived here. There is 1 figure.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev

(Institute of General and Inorganic Chemistry of the

AS UkrSSR, Kiyev)

SUBMITTED:

May 18, 1961

Card 3/3

SHULEPOV, Yu.V.; BUYKOV, M.V.

Dissipation of stratus cloudiness in a turbulent atmosphere. Trudy UkrNIGMI no.48:3-12 '65.

Solution to instability in an unstably stratified atmosphere.

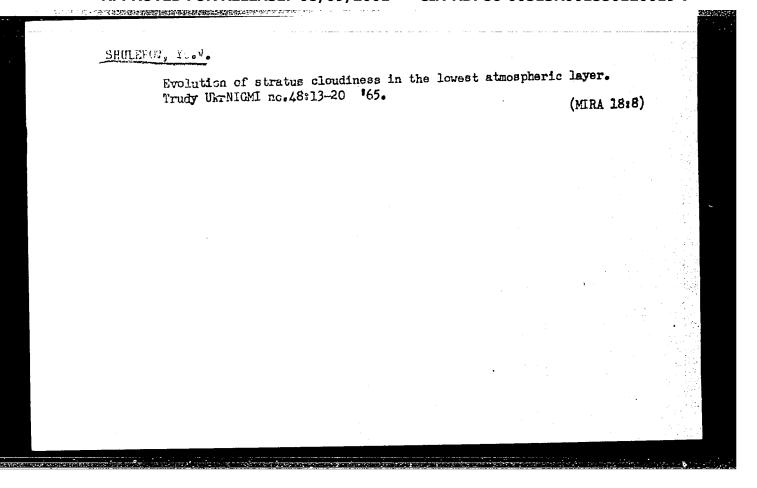
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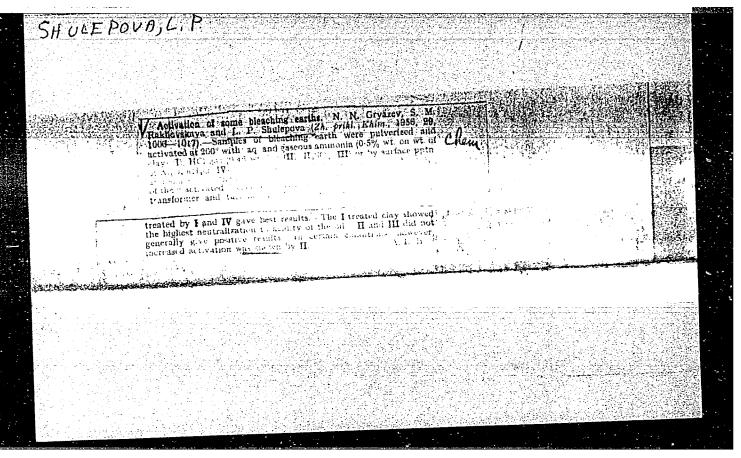
### CIA-RDP86-00513R001550120019-7 "APPROVED FOR RELEASE: 08/09/2001

LHULEPOI, Yu.V.; BUTGOT, H.V. Theory of dissipution of stratus wheels in a nonthibulen atmosphere in the pressures of deceables vertical metions. Izv. AN SSER, Fig. atm. 1 chieve 1 no.3:248-257 Mr 165.

(MINA 18:5)

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SHOUE POUTS, L.F.
GRYAZEV, N.N.; RAKHOVSKAYA, S.M.; SHULEPOVA, L.P.

Activation of bleaching earths of the Volga region. Zhur.prikl. khim. 29 no.7:1006-1017 Jl '57. (MIRA 10:10)

l. Nauchno-issledovatel'skiy institut khimii pri Saratovskom gosudarstvennom universitete im. N.G. Chernyshevskogo. (Volga Valley--Bleaching agents)

SHULEPOVA, N. A.

SHULEPOVA, N. A. -- "The Condition of the Kidneys in Pulmonary Tuberculosis." Leningrad, 1955. (Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Litopis', No. 7, 1956.

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# Kidneys in pulmonary tuberculosis. Urologiis 22 no.2:15-17 Mr-Ap '57. (MIRA 10:7) 1. Iz kafedry urologii (zav. - prof. A.M.Gesparyan) I Leningradskogo meditsinskogo instituta imeni akad. I.P.Pavlova (dir. - dotsent A.I. Ivanov). (TUBERCULOSIS, PULMONARY, compl. clin. disord. & pathol. of kidneys) (KIDNEYS, in DISEASES, etiol. and pathogen. clin, disord. & pathol. in pulm. tuberc.)

SHULEPOVA, N.A., kand. med. nauk

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Surgical treatment of urological patients with cardiovascular diseases. Urologiia 28 no.3:6-10'63 (MIRA 17:2)

1. Iz urologicheskoy kliniki (zav. - prof. A.M. Gasparyan) I Leningradskogo meditsinskogo instituta imeni akademika Pavlova.

SHULEPOVA, N.I.; BELOV, N.V.

Symmetry of the Pattersen function. Kristallografiia 1 no.5:

(MLRA 10:2)

一次、 京都市の中央大学の経済の大学を開発の経済を発展しませんからなから、 こうでしょう こうしょう こうしょう

1. Gor'kovskiy gosudarstvennyy universitet im N.I. Lobachevskogo. (Crystallography, Mathematical)

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PREDVODITELEV, A.S.; LAVROV, N.V., doktor tekhn. nauk, prof.; AL'T-SHULER, V.S., doktor tekhn. nauk; POPOV, V.M., kand. tekhn. nauk; TSEYTLIN, B.S., red. izd-va; PRUSAKOVA, T.A., tekhn. red.; RYLIMA, Yu.V., tekhn. red.

[Fuel gases in the national economy; work of the All-Union Conference] Ispol'zovanie goriuchikh gazov v narodnom khoziaistve; trudy Vsesoiuznogo soveshchaniia. Moskva. 1961. 266 p. (MIRZ 14:5)

1. Akademiya nauk SSSR. Institut goriuchikh iskopayemykh.
2. Chlen-korrespondent AN SSSR (for Predvoditelev) 3. Institut goryuchikh iskopayemykh AN SSSR (for Lavrov, Popov)
(Gas as fuel-Congresses)